

[Apologies if you receive multiple copies of this announcement]

**The paper submission deadline has been postponed to May 15, 2015.  
For the already submitted papers, the PDF can be modified until May 15, 2015!**

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## **Errors by Humans and Machines in multimedia, multimodal and multilingual data processing – ERRARE 2015**

**11-13 September 2015, Sinaia (Romania)**

The Research Institute for Artificial Intelligence “Mihai Draganescu” (ICIA) of the Romanian Academy in collaboration with IMMI-CNRS, LIMSI-CNRS, the LAbEx EFL and A.I Cuza University of Iasi, organizes the second edition of the “Errare” workshop, in September 11-13, 2015, as a satellite event of Interspeech 2015 (<http://interspeech2015.org/>).

The workshop will be organized around the topic of errors produced and processed by humans and machines in multimedia, multimodal and multilingual data with a particular focus on spoken language. It distinguishes itself from other conferences addressing these issues by providing a forum for dialogue and exchange between researchers working in linguistics, including psycho- and neurolinguistics, on the one hand, and researchers in computer science, machine learning and multimedia speech and language processing, on the other hand.

For this interdisciplinary workshop, we would like to gather these different communities around the issues of variation, ambiguity and errors in speech and language. The purpose of this workshop is to share interdisciplinary expertise on a heterogeneous phenomenon referred to as “variation” and “ambiguity” in some domains and as “errors” in others. Researchers are invited to share their thoughts and observations through case studies run in the context of various initiatives.

A large panel of research areas shares a common object of study: human language. These areas encompass historically well-established research communities: classical humanities and social sciences (phonetics, phonology, psycholinguistics, etc.), and more recent domains of the sciences (brain and computer science). Research objectives include analyzing, modeling, understanding and theorizing the human processing of speech variation. For linguists and psycholinguists variation in speech involves some matching process between variable surface forms and stable underlying forms: in such a framework errors may naturally arise as mismatches occurring at the interface of surface and underlying representations. Yet by which mechanisms errors may arise and how to interpret the patterning of errors within theoretical models of speech production and perception has been a matter of controversy. Speech error research in recent years has particularly highlighted the fuzzy boundary between the concepts of 'variability', ambiguity' and 'error'. Research activities most often include corpora consisting of various types of recorded speech from controlled laboratory speech to large scale multilingual data. Databases may also portray mono and multilingual speech. Such corpora may be a result of a variety of capturing techniques from standard audio recordings to multimedia and multimodal data (e.g. multi-sensor capturing of either articulation gestures or brain activities). Errors can also be envisioned as a result of noisy data capturing conditions.

Sharing experience with errors, variation and ambiguity is expected to produce beneficial insights for the different communities:

- Concerning **humanities**, variation and ambiguity are central to the different branches of linguistics. Furthermore, human production and perception errors challenge the existing language acquisition, production and perception models.
- For **automatic speech and language processing**, residual errors indicate regions which escape current

modeling capacities. In-depth analyses in collaboration with linguists, psycholinguists and speech scientists may contribute to a better understanding of these phenomena and to the proposal of innovative strategies.

•**Brain sciences**, a recent rapidly evolving research area, open new opportunities and the study of errors can contribute to reveal the hidden organization of the brain.

**We invite contributions focusing on errors produced by humans and/or machines in in multimedia, multimodal and multilingual data processing from (but not limited to) the following areas:**

- Cognition and brain studies related to errors in speech
- Speech production (e.g. slips of the tongue...)
- Speech perception
- First and second language acquisition
- Bilingualism and code switching
- Voice pathologies / clinical phonetics
- Prosody
- Natural language processing
- Corpus linguistics
- Automatic speech processing
- Speech and multimodality
- Speech and language translation
- Spoken Interaction
- Information retrieval
- Evaluation methods

**Important dates:**

~~27 April 2015: submission deadline~~ **New deadline! 15 May 2015!**

**15 June 2015** : notifications of acceptance

**29 June 2015:** final papers

**15 July 2015:** Early bird registration

**Workshop dates : 11-13 September 2015**

**Organizing committee:**

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Joseph Mariani (IMMI/LIMSI-CNRS)

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**Website :**

<http://errare2015.racai.ro/>

**Paper format and submission :**

All papers must be formatted according to the INTERSPEECH 2015 Author's Kit, which you can download from the INTERSPEECH 2015 website (<http://interspeech2015.org/>), but with the possibility to use up to six pages in total (including bibliography) instead of the 4+1 pages for INTERSPEECH 2015. Interspeech provides templates for LibreOffice, Microsoft Word, and LaTeX. However, we strongly recommend to use LaTeX. Papers must be submitted as a pdf document via the online submission system of the conference management system.

**Submission site is now open !**

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